2/3

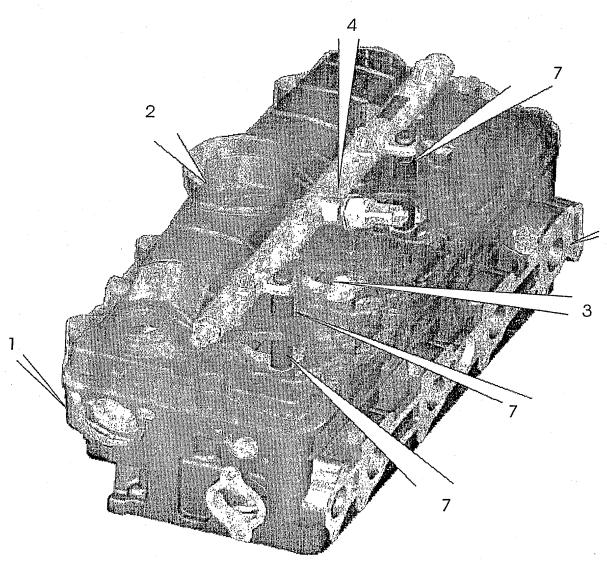
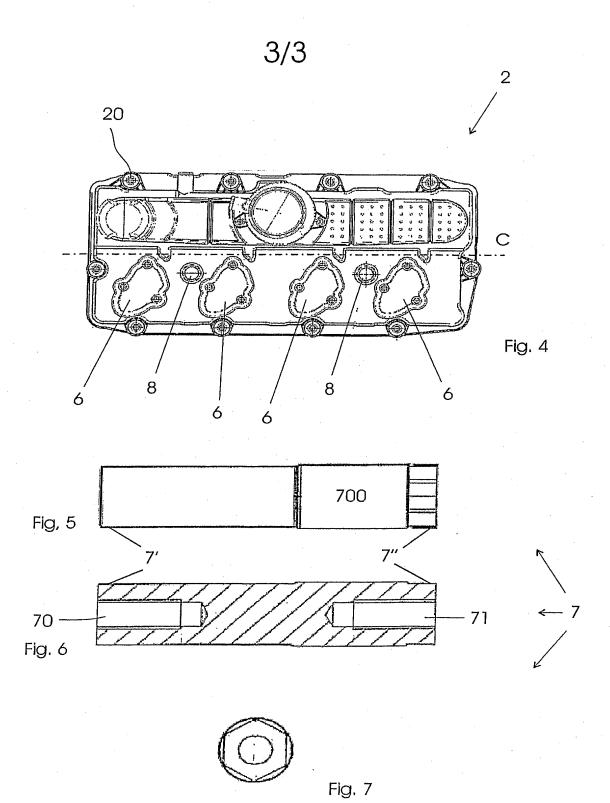


Fig. 3



INTERNATIONAL SEARCH REPORT

Int > nat Application No Pc 1 / 3R2004/000200

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F02M55/02 F02M69/46 F02M61/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - F02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	US 2003/106525 A1 (MORGILLO IVANO ET AL) 12 June 2003 (2003-06-12) paragraph '0014! - paragraph '0018! paragraph '0023! - paragraph '0027! figures 1-3	1,2,4-7, 12,13,15			
X	EP 0 964 151 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 15 December 1999 (1999-12-15) paragraph '0009! - paragraph '0041! figures 1-4	1,2,4-6, 12,13,15			
x	US 5 735 247 A (TSUZUKI ET AL) 7 April 1998 (1998-04-07) column 2, line 37 - column 6, line 23 figures 1-10	1,2,4-6, 12,13,15			
X Furthe	r documents are listed in the continuation of box C. Patent family members are list	eu III annex,			
Special cate	gories of cited documents: "T" later document published after the	international filing date			

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken atone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 7 February 2005	Date of mailing of the international search report 17/02/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Louchet, N

INTERNATIONAL SEARCH REPORT

Internal Application No

	INTERNATIONAL SEARCH REPORT	PU1/BR20	04/000200	
Category °	DOCUMENTS CONSIDERED TO BE RELEVANT on of document, with indication, where appropriate, of the relevant passages Relevant to claim No.			
X	EP 1 028 250 A (MAZDA MOTOR CORPORATION) 16 August 2000 (2000-08-16) paragraph '0018! - paragraph '0029! figures 1-10		1,2,4-6, 12,13,15	
A	DE 198 18 409 A1 (MTU MOTOREN- UND TURBINEN-UNION FRIEDRICHSHAFEN GMBH) 28 October 1999 (1999-10-28) the whole document		1	
A	DE 100 37 133 A1 (VOLKSWAGEN AG) 14 February 2002 (2002-02-14) paragraph '0001! - paragraph '0013! figures 1-6		1	
		 .		

INTERNATIONAL SEARCH REPORT

nformation on patent family members

Inf nal Application No
Pur JR2004/000200

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2003106525	A1	12-06-2003	DE WO DE EP JP	19962987 0148368 50005560 1240423 2003518582	A1 D1 A1	05-07-2001 05-07-2001 08-04-2004 18-09-2002 10-06-2003
EP 0964151	A	15-12-1999	JP EP KR US	11351095 0964151 2000006081 6073612	A2 A	21-12-1999 15-12-1999 25-01-2000 13-06-2000
US 5735247	A	07-04-1998	JP JP	3316148 9291867		19-08-2002 11-11-1997
EP 1028250	A	16-08-2000	JP DE EP	2000234575 / 60016646 I 1028250 /	01	29-08-2000 20-01-2005 16-08-2000
DE 19818409	A1	28-10-1999	NONE			
DE 10037133	A1	14-02-2002	NONE			